Office of Environmental Health Hazard Assessment



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Linda S. Adams Secretary for Environmental Protection March 28, 2008

Arnold Schwarzenegger
Governor

James B. Gulliford
Assistant Administrator
U.S. Environmental Protection Agency
Office of Prevention, Pesticides and Toxic Substances
MC 7101M
1200 Pennsylvania Avenue, N. W.
Washington, D.C. 20460

Dear Mr. Gulliford:

As we have done in the past, we are contacting your office for assistance in updating the list of chemicals which have not yet been adequately tested as required under Title 22, California Code of Regulations, Section 14000. The list, which is mandated under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65), was initially published on January 1, 1989, and must be updated at least annually. As part of the update we ask for your assistance in identifying those chemicals which have not been adequately tested as required by federal law for their potential to cause cancer or reproductive toxicity.

In past years, staff from your office has been most helpful and responsive to us. Therefore, we are again requesting input from your office to identify chemicals which require testing under Section 4(a) of the Toxic Substances Control Act, and Federal Insecticide, Fungicide, and Rodenticide Act. Please review the list last provided by your office (Subsections (c) and (d) of Section 14000, copy enclosed) and submit to us any additions, deletions, or other changes. A response by June 30, 2008 would be appreciated.

Thank you for your assistance. In the meantime, if you have any questions, please contact Ms. Cynthia Oshita of my staff at (916) 322-2068.

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Sincerely,

Allan Hirsch

Chief Deputy Director

Enclosure

EXCERPT FROM TITLE 22, CALIFORNIA CODE OF REGULATIONS

§ 14000. Chemicals Required By State Or Federal Law To Have Been Tested For Potential To Cause Cancer Or Reproductive Toxicity, But Which Have Not Been Adequately Tested As Required.

(a) The Safe Drinking Water and Toxic Enforcement Act of 1986 requires the Governor to publish a list of chemicals formally required by state or federal agencies to have testing for carcinogenicity or reproductive toxicity, but that the state's qualified experts have not found to have been adequately tested as required [Health and Safety Code Section 25249.8(c)].

Readers should note that a chemical that already has been designated as known to the state to cause cancer or reproductive toxicity is not included in the following listing as requiring additional testing for that particular toxicological endpoint. However, the "data gap" may continue to exist, for purposes of the state or federal agency's requirements. Additional information on the requirements for testing may be obtained from the specific agency identified below.

(b) Chemicals required to be tested by the California Department of Pesticide Regulation

The Birth Defect Prevention Act of 1984 (SB 950) mandates that the California Department of Pesticide Regulation (CDPR) review chronic toxicology studies supporting the registration of pesticidal active ingredients. Missing or unacceptable studies are identified as data gaps. The studies are conducted to fulfill generic data requirements of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), which is administered by the United States Environmental Protection Agency (U.S. EPA). The studies are reviewed by CDPR according to guidelines and standards promulgated under FIFRA. Thus, older studies may not meet current guidelines.

The existence of a data gap for a compound does not indicate a total lack of information on the carcinogenicity or reproductive toxicity of the compound. In some cases, information exists in the open scientific literature, but SB 950 requires specific additional information. A data gap does not necessarily indicate that an oncogenic or reproductive hazard exists. For the purposes of this list, a data gap is still considered to be present until the study is reviewed and found to be acceptable.

Following is a listing of SB 950 data gaps for oncogenicity, reproduction, and teratology studies for the non-200 pesticidal active ingredients. This list will change as data gaps are filled by additional data or replacement studies.

For purposes of this section, "onc mouse" means oncogenicity in mice, "onc rat" means oncogenicity in rats, "repro" means reproduction, "tera rat" means teratogenicity in rats, "tera rabbit" means teratogenicity in rabbits.

Chemical

Testing Needed

Acid Blue 9*

onc rat, onc mouse, repro, tera rat, tera rabbit

Acid Yellow 23*
Agrobacterium radiobacter*
Alkyl-1,3-propylene diamine acetate alkyl

derived from coconut oil fatty acids Alkyl amino-3-amino propane hydroxy

acetate alkyl derived from coconut oil fatty acids

Ammonium thiosulfate*

Borax*
Bromadiolone*
Butoxy polypropylene glycol*

Butoxy polypropoxy polyethoxy ethanoliodine complex

Castor oil*

Chlorophacinone*
Chromic acid*
Copper salts of fatty and rosin acids*

Disodium octaborate tetrahydrate

.

Menthol*

Meta-cresol*

Methoprene*

Methyl isothiocyanate*
2,2-(Methyl trimethylene dioxy)bis(4-methyl-1,3,2-dioxaborinate)*
Mineral oil*
Muscalure*

Petroleum distillates*

Petroleum distillates, refined*

Petroleum oil, paraffin based*

Petroleum oil, unclassified*

one rat, one mouse, repro

one rat, one mouse, repro, tera rat,

tera rabbit

tera rat, tera rabbit (only one required)

tera rat, tera rabbit (only one required)

one rat, one mouse, repro, tera rat, tera rabbit

onc rat, repro onc rat, onc mouse, repro, tera rabbit onc rat, onc mouse, repro, tera rat, tera rabbit tera rat

onc rat, onc mouse, repro, tera rat, tera rabbit onc rat, onc mouse, repro onc mouse, repro, tera rabbit onc rat, onc mouse, repro, tera rat, tera rabbit

onc rat, repro

onc rat, onc mouse, repro, tera rat,

tera rabbit

tera rat, one rat, one mouse, repro,

tera rabbit

one mouse, one rat, repro, tera rat,

tera rabbit

repro

onc rat, onc mouse, repro, tera rabbit

onc rat, repro, tera rabbit tera rat, tera rabbit (only one is required)

one rat, one mouse, repro, tera rat,

tera rabbit

onc rat, onc mouse, repro, tera rat,

tera rabbit

onc rat, onc mouse, repro, tera rat,

tera rabbit

one rat, one mouse, repro, tera rat,

•	tera rabbit
Polyethoxy polypropoxy polyethoxy	tera rat
ethanol-iodine complex*	
Propylene oxide*	tera rabbit, repro, tera rat
Sabadilla alkaloids*	onc rat, onc mouse, repro, tera rabbit
Sodium chlorate*	onc rat, onc mouse, repro, tera rabbit
Sodium fluoride*	one rat, one mouse, repro, tera rat,
	tera rabbit
Sodium metaborate	onc rat, repro
Sodium phenate*	tera rat
Tetraglycine hydroperiodide*	tera rat, tera rabbit
	(only one required)
Triethylene glycol*	onc rat, onc mouse, repro, tera rat,

2,4-Xylenol*

onc rat, onc mouse, repro, tera rat, tera rabbit

tera rabbit

*Claims are pending review that data should not be required

(c) Chemicals required to be tested by the U.S. EPA, Office of Toxic Substances.

Under Section 4(a) of the Toxic Substances Control Act, testing of a chemical is required when that chemical may present an unreasonable risk, or is produced in substantial quantities and enters the environment in substantial quantities, or may have significant or substantial human exposure.

For purposes of this section, "tera" means teratogenicity, "rtox" means reproductive toxicity, "onc" means oncogenicity.

Chemical	Testing Needed
Ethylene dichloride	rtox
1.1.2-Trichloroethane	onc, rtox, tera

NOTE: The testing of the above chemicals is being carried out under "Enforceable Consent Agreements" (or ECAs) under Section 4 of TSCA. In addition, there are a number of ongoing TSCA testing action development activities that may be of interest in the context of Proposition 65. When promulgated, these TSCA Section 4 Test Rules and/or ECAs will require industry to conduct reproductive toxicity, developmental toxicity, and/or cancer studies on a number of 1) harzardous air pollutants (or HAPs), 2) chemicals frequently found at Superfund sites, and 3) U.S. high production volume (or HPV) chemicals. As these, and possibly other, TSCA Section 4 Test Rules/ECAs become effective, this table will be revised to reflect those additional chemical substances for which developmental toxicity, reproductive

toxicity, and/or oncogenicity testing is currently being required under Section 4 of TSCA.

(d) Chemicals required to be tested by the U.S. EPA, Office of Pesticide Programs.

The U.S. EPA is responsible for the regulation of pesticides under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). FIFRA requires U.S. EPA to register pesticides based on data adequate to demonstrate that they will not result in unreasonable adverse effects to people or the environment when used in accordance with their U.S. EPA-approved labels.

In 1988, FIFRA was amended to strengthen U.S. EPA's pesticide regulatory authority and responsibilities to reregister pesticides registered prior to 1984 to ensure they meet today's stringent scientific and regulatory standards. Reregistration requires registrants to develop up-to-date data bases for each pesticide active ingredient. As part of the reregistration process, modifications may be made to registrations, labels or tolerances to ensure they are protective of human health and the environment. Also, reregistration reviews will identify any pesticides where regulatory action may be necessary to deal with unreasonable risks. U.S. EPA has been directed to accelerate the reregistration process so that the entire process is completed by 1997. The 1988 amendments set out a five-phase schedule to accomplish this task with deadlines applying to both pesticide registrants and the U.S. EPA. These amendments are requiring a substantial number of new studies to be conducted and old studies to be reformatted for U.S. EPA review to ensure they are adequate. U.S. EPA may, in the future, request additional data or information to further evaluate any concerns over the safety of pesticide products.

The chemicals listed below are those for which data are unavailable or inadequate to characterize oncogenicity, teratogenicity, or reproductive effects potential. For purposes of this section, "one" means oncogenicity, "tera" means teratogenicity, and "repro" means reproductive toxicity.

Data Requirements

Chemicai	Data Reguirements
Acrolein	onc, tera
Alkyl imidazolines	tera
Ametryn	repro, tera
4-Aminopyridine	onc, repro, tera
4-T-Amylphenol	onc, repro
Aquashade	onc, repro, tera
Benzisothiazolin-3-one	onc, repro, tera
Bromonitrostyrene	tera
Busan 77	repro
Chlorflurenol methyl	tera
Chromated arsenicals	tera
Cypermethrin	onc
- m	

Chemical

DCNA	
	repro
Diclofop-methyl	onc, tera
Dicrotophos	onc, repro
Dihalodialkylhydantoins	onc, repro, tera
Dimethepin	onc, repro, tera
Dimethyldithiocarbamate	onc, repro, tera
Dinocab and its compounds	tera
Dipropyl isocinchomeronate	repro
Dodine	onc, tera
Dodnie	one, teru
Endothall and salts	onc, repro, tera
Ethofumesate	onc
Ethoxyquin	tera
Fenthion	tera
Fenvalerate	onc, repro, tera
Fluvalinate	repro, tera
Hydroxy-methyldithiocarbamate	tera
Imazalil	onc
Inorganic chlorates	onc, repro, tera
	onc, repro, tera
Inorganic sulfites	tera
Iodine-potassium iodide	
Iprodione	tera
Irgasan	onc, repro, tera
Lampracida	one
Lamprecide	onc
Magnesium phosphide	onc
Magnesium phosphide Malathion	onc onc
Magnesium phosphide Malathion Maneb	onc onc onc, tera
Magnesium phosphide Malathion Maneb Mepiquat chloride	onc onc, tera tera
Magnesium phosphide Malathion Maneb Mepiquat chloride Metaldehyde	onc onc, tera tera onc
Magnesium phosphide Malathion Maneb Mepiquat chloride Metaldehyde Methoxychlor	onc onc, tera tera onc onc, repro, tera
Magnesium phosphide Malathion Maneb Mepiquat chloride Metaldehyde	onc onc, tera tera onc
Magnesium phosphide Malathion Maneb Mepiquat chloride Metaldehyde Methoxychlor Methyl isothiocyanate	onc onc, tera tera onc onc, repro, tera tera
Magnesium phosphide Malathion Maneb Mepiquat chloride Metaldehyde Methoxychlor Methyl isothiocyanate Napthaleneacetic acid	onc onc, tera tera onc onc, repro, tera tera onc, repro
Magnesium phosphide Malathion Maneb Mepiquat chloride Metaldehyde Methoxychlor Methyl isothiocyanate Napthaleneacetic acid Naphthenate salts	onc onc, tera tera onc onc, repro, tera tera onc, repro tera
Magnesium phosphide Malathion Maneb Mepiquat chloride Metaldehyde Methoxychlor Methyl isothiocyanate Napthaleneacetic acid Naphthenate salts Napropamide	onc onc, tera tera onc onc, repro, tera tera onc, repro tera repro
Magnesium phosphide Malathion Maneb Mepiquat chloride Metaldehyde Methoxychlor Methyl isothiocyanate Napthaleneacetic acid Naphthenate salts Napropamide Niclosamide	onc onc, tera tera onc onc, repro, tera tera onc, repro tera repro onc, tera
Magnesium phosphide Malathion Maneb Mepiquat chloride Metaldehyde Methoxychlor Methyl isothiocyanate Napthaleneacetic acid Naphthenate salts Napropamide Niclosamide Nicotine and derivatives	onc onc, tera tera onc onc, repro, tera tera onc, repro tera repro onc, tera onc, tera
Magnesium phosphide Malathion Maneb Mepiquat chloride Metaldehyde Methoxychlor Methyl isothiocyanate Napthaleneacetic acid Naphthenate salts Napropamide Niclosamide	onc onc, tera tera onc onc, repro, tera tera onc, repro tera repro onc, tera
Magnesium phosphide Malathion Maneb Mepiquat chloride Metaldehyde Methoxychlor Methyl isothiocyanate Napthaleneacetic acid Naphthenate salts Napropamide Niclosamide Nicotine and derivatives Nitrapyrin	onc onc, tera tera onc onc, repro, tera tera onc, repro tera repro onc, tera onc, tera
Magnesium phosphide Malathion Maneb Mepiquat chloride Metaldehyde Methoxychlor Methyl isothiocyanate Napthaleneacetic acid Naphthenate salts Napropamide Niclosamide Nicotine and derivatives Nitrapyrin Octhilinone	onc onc, tera tera onc, repro, tera tera onc, repro tera repro onc, tera onc, tera onc, tera onc, tera onc, tera
Magnesium phosphide Malathion Maneb Mepiquat chloride Metaldehyde Methoxychlor Methyl isothiocyanate Napthaleneacetic acid Naphthenate salts Napropamide Niclosamide Nicotine and derivatives Nitrapyrin Octhilinone Oil of Pennyroyal	onc onc, tera tera onc onc, repro, tera tera onc, repro tera repro onc, tera onc, tera onc, tera onc, tera onc, tera tera
Magnesium phosphide Malathion Maneb Mepiquat chloride Metaldehyde Methoxychlor Methyl isothiocyanate Napthaleneacetic acid Naphthenate salts Napropamide Niclosamide Nicotine and derivatives Nitrapyrin Octhilinone	onc onc, tera tera onc onc, repro, tera tera onc, repro tera repro onc, tera onc, tera onc, tera onc, tera onc, tera

Pebulate	tera
Perfluidone	tera
Phenmedipham	onc
Phenol and salts	tera
2-Phenylphenol and salts	onc, tera
Pine oils	tera
Poly (hexamethylene biguanide)	onc, repro
Polyethoxylated aliphatic alcohols	onc, repro, tera
Prometon	tera
Propanil	onc, repro
Propetamphos	tera
Propiconazole	onc
Propylene oxide	tera
Pyrazon	onc, repro
Sethoxydim	onc
Siduron	onc, repro, tera
Sodium fluoride	tera
Sulfometuron-methyl	onc, tera
TBT-containing compounds	onc, tera
TCMB	onc, repro, tera
Temephos	onc, tera
Tetrachlorovinphos	onc
Tetramethrin	onc
Thiabendazole and salts	onc, repro, tera
Thidiazuron	onc, repro, tera
Thiodicarb	tera
Thiophanate-methyl	onc, tera
Triadimefon	onc

Revised: January 1, 2006

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